

receiver 320, signaling that the reservation request initiated by the receiver 320 has failed.

The egress policy enforcement device may also construct a PATH\_ERR message, at act 670,

and send it, at act 675, to the sender 310 to indicate a failure in reserving the network

resource in the reverse direction.

Page 11, delete the whole paragraph starting in line 21 and replace it with the following new paragraph

FIG. 8 and FIG. 9 show the flowchart for the receiver 320. Once the sender 310 initiates a 3-way handshake, if the receiver 320 receives a PATH message at 810, it indicates that the resource reservation for the forward direction is successful. The receiver 320 responds to the PATH message and, at the same time, initiates the reservation for the reverse direction by constructing an RESV message. To do so, the PATH message is processed at 820. The PATH message has a NEXT HOP object that provides the IP address of the 1<sup>st</sup> router to which the RESV message must be sent. Such information may be extracted at 830 and used to construct an RESV message at 840. The RESV message generated by the receiver 320 carries both the reservation information for the reverse direction. The RESV message is sent from the receiver 320 to the egress policy enforcement device of the last domain between the sender 310 and the receiver 320. The receiver 320 marks the time at 853 to establish the time reference to be used in a time-out mechanism and then waits for return messages.

Page 17, delete the whole paragraph starting in line 7 and replace it with the following new paragraph

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Correct

If the received message is a RESV<sub>1</sub>+PATH<sub>2</sub> message, it is in the second pass of the 4-way handshake. In this pass, an ingress policy enforcement device performs both the function of reserving resources needed for the forward direction (based on the RESV<sub>1</sub> message).

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Page 18, delete the whole paragraph starting in line 17 and replace it with the following new paragraph

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If the message received at 1510 is an RESV<sub>1</sub>+PATH<sub>2</sub> message, the egress policy enforcement device adds its own address to the NEXT\_HOP object of PATH<sub>2</sub> at 1536 and forwards the RESV<sub>1</sub>+PATH<sub>2</sub> message at 1537 to the ingress policy enforcement device of the same domain. The egress policy enforcement device then goes back to a waiting mode at 1510 to intercept the next message.

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Page 19, delete the whole paragraph starting in line <sup>14</sup>~~17~~ and replace it with the following new paragraph

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FIG. 16 and FIG. 17 show the flowchart for the receiver 1020 in a 4-way handshake scheme. After the 4-way handshake is initiated by the sender 1010, the receiver 1020 receives the PATH<sub>1</sub> message and uses it to construct the RESV<sub>1</sub> message which is sent back to the sender. The RESV<sub>1</sub> message carries the reservation request for the forward direction and travels along the reverse path as the PATH<sub>1</sub> message. The receiver determines the op address of the 1<sup>st</sup> egress router using the NEXT\_HOP object in the PATH<sub>1</sub> message.”

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Page 20, delete the whole paragraph starting in line 14 and replace it with the following new paragraph

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